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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): Polyester different-contraction commingled <u>filament</u> yarn comprising two different types of filaments with different boiling water shrinkage ratios, comprising polyester polymer as the principal component individually,

wherein

the polyester polymer is one produced by polycondensation of an aromatic dicarboxylate ester in the presence of a catalyst,

the catalyst comprises at least one ingredient selected from among mixture (1) and reaction product (2) below,

the mixture (1) is a mixture of the following components (A) and (B):

- (A) a titanium compound component comprising at least one compound selected from the group consisting of:
 - (b) reaction products of titanium alkoxides of general formula (I)

$$R^{1}O \begin{pmatrix} OR^{2} \\ | \\ Ti - O \\ | \\ OR^{3} \end{pmatrix} = R^{4} \qquad (I)$$

wherein R¹, R², R³ and R⁴ each independently represent one species selected from alkyl groups having 1 to 20 carbon atoms and phenyl group, m represents an integer of 1-4, and when m is an integer of 2, 3 or 4, the two, three or four R² and R³ groups may be the same or different;

with trimellitic acid or anhydride thereof, and

(B) a phosphorous compound component comprising triethyl phosphonoacetate represented by the formula (III):

$$C_2H_5O - C - C - C - P - OC_2H_5$$
 $O - OC_2H_5$
 $O - OC_2H_5$

the catalyst mixture (1) is used with a mixing ratio such that the ratio (%) MTi of the millimoles of titanium element in the titanium compound component (A) with respect to the number of moles of the aromatic dicarboxylate ester and the ratio (%) Mp of the millimoles of phosphorus element in the phosphorus compound component (B) with respect to the number of moles of the aromatic dicarboxylate ester satisfy the following expressions (i) and (ii):

$$1 \le Mp/MTi \le 15$$

(i)

$$10 \le Mp + MTi \le 100$$

(ii),

and the reaction product (2) is the reaction product of the following components (C) and (D):

- (C) a titanium compound component comprising at least one compound selected from the group consisting of:
 - (c) titanium alkoxides represented by formula (I) above and
- (d) reaction products of titanium alkoxides of general formula (I) above with trimellitic acid or anhydride thereof, and
- (D) a phosphorus compound component comprising at least one phosphorus compound represented by the following general formula (IV):

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$$(R^{8}O)_{p}-P-(OH)_{3-p}$$

(IV)

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wherein R⁸ represents alkyl group having 1 to 20 carbon atoms or aryl group having 6 to 20 carbon atoms, and p represents an integer of 1 or 2,

and the polyester filaments having a low boiling water shrinkage are ones produced by heat-relaxing partially oriented polyester filaments at an overfeed of 0.5 to 5.0%.

- 2. (previously presented): Polyester different-contraction commingled yarn according to claim 1, wherein component (A) of the mixture (1) for the catalyst and component (C) of the reaction product (2) for the catalyst contain the respective titanium alkoxide (a) and titanium alkoxide (c) each in a reaction molar ratio in the range of 2:1 to 2:5 with respect to trimellitic acid or anhydride thereof.
- 3. (withdrawn): Polyester different-contraction commingled yarn according to claim 1, wherein in the reaction product (2) for the catalyst, the reaction ratio of component (D) with respect to component (C) is in the range of 1:1 to 3:1, in terms of the ratio of the moles of phosphorus atoms in component (D) to the moles of titanium atoms in component (C) (P/Ti).
- 4. (withdrawn): Polyester different-contraction commingled yarn according to claim 1, wherein the phosphorus compound of general formula (IV) used in the reaction product (2) for the catalyst is selected from among monoalkyl phosphates.

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5. (previously presented): Polyester different-contraction commingled yarn according to claim 1, wherein the aromatic dicarboxylate ester is a diester produced by transesterification of an aromatic dicarboxylic acid dialkyl ester and an alkylene glycol ester in the presence of a titanium compound-containing catalyst.

- 6. (previously presented): Polyester different-contraction commingled yarn according to claim 1, wherein the aromatic dicarboxylic acid is selected from among terephthalic acid, 1,2-naphthalenedicarboxylic acid, phthalic acid, isophthalic acid, diphenyldicarboxylic acid and diphenoxyethanedicarboxylic acid, and the alkylene glycol is selected from among ethylene glycol, butylene glycol, trimethylene glycol, propylene glycol, neopentyl glycol, hexanemethylene glycol and dodecanemethylene glycol.
- 7. (previously presented): Polyester different-contraction commingled yarn according to claim 1, wherein the difference between the boiling water shrinkage ratios of the two filaments is 2% or greater.
- 8. (previously presented): Polyester different-contraction commingled yarn according to claim 1, wherein both of the filaments are latent crimping conjugated filaments of two different polyester polymers conjugated in a side-by-side fashion or eccentric core-sheath fashion, the boiling water shrinkage ratio of one of the filaments is 0.5-8.0% and the boiling water shrinkage ratio of the other filaments is at least 10%.

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9. (previously presented): Polyester different-contraction commingled yarn according to

claim 1, wherein the crimp ratio of the filaments with a high boiling water shrinkage ratio (high-

shrinkage filaments) after boiling water treatment is at least 1.5%.

10. (previously presented): Polyester different-contraction commingled yarn according

to claim 1, wherein the filaments with a low boiling water shrinkage ratio (low-shrinkage

filaments) are filaments taken up at a take-up speed of 2000-4000 m/min in melt spinning and

objected to relaxation heat treatment.

11. (previously presented): Polyester different-contraction commingled yarn according

to claim 1, wherein the single filament size of the high-shrinkage filaments are larger than that of

the low-shrinkage filaments, the single filament size of the low-shrinkage filaments is 0.05-3.5

dtex, the single filament size of the high-shrinkage filaments is 0.55-15.0 dtex, and the difference

in filament sizes is 0.5 dtex or greater.

12. (previously presented): Polyester different-contraction commingled yarn according

to claim 1, wherein the two different types of filaments are a polyester partially oriented yarn

with a boiling water shrinkage ratio of no greater than 5% and a polyester yarn with a boiling

water shrinkage ratio of 8% or greater.

13. (withdrawn): Polyester different-contraction commingled yarn according to claim 2,

wherein in the reaction product (2) for the catalyst, the reaction ratio of component (D) with

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respect to component (C) is in the range of 1:1 to 3:1, in terms of the ratio of the moles of phosphorus atoms in component (D) to the moles of titanium atoms in component (C) (P/Ti).

14. (withdrawn): Polyester different-contraction commingled yarn according to claims 2,

wherein the phosphorus compound of general formula (IV) used in the reaction product (2) for

the catalyst is selected from among monoalkyl phosphates.

15. (withdrawn): Polyester different-contraction commingled yarn according to claims 3,

wherein the phosphorus compound of general formula (IV) used in the reaction product (2) for

the catalyst is selected from among monoalkyl phosphates.

16. (previously presented): Polyester different-contraction commingled yarn according to

claims 2, wherein the aromatic dicarboxylate ester is a diester produced by transesterification of

an aromatic dicarboxylic acid dialkyl ester and an alkylene glycol ester in the presence of a

titanium compound-containing catalyst.

17. (previously presented): Polyester different-contraction commingled yarn according to

claims 3, wherein the aromatic dicarboxylate ester is a diester produced by transesterification of

an aromatic dicarboxylic acid dialkyl ester and an alkylene glycol ester in the presence of a

titanium compound-containing catalyst.

18. (withdrawn): Polyester different-contraction commingled yarn according to claims 4,

wherein the aromatic dicarboxylate ester is a diester produced by transesterification of an

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compound-containing catalyst.

19. (previously presented): Polyester different-contraction commingled yarn according to

claims 5, wherein the aromatic dicarboxylate ester is a diester produced by transesterification of

aromatic dicarboxylic acid dialkyl ester and an alkylene glycol ester in the presence of a titanium

an aromatic dicarboxylic acid dialkyl ester and an alkylene glycol ester in the presence of a

titanium compound-containing catalyst.

20. (previously presented): Polyester different-contraction commingled yarn according to

claims 2, wherein the aromatic dicarboxylic acid is selected from among terephthalic acid, 1,2-

naphthalenedicarboxylic acid, phthalic acid, isophthalic acid, diphenyldicarboxylic acid and

diphenoxyethanedicarboxylic acid, and the alkylene glycol is selected from among ethylene

glycol, butylene glycol, trimethylene glycol, propylene glycol, neopentyl glycol,

hexanemethylene glycol and dodecanemethylene glycol.

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